

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A touch sensor, comprising:
  - a display device having at least one a first substrate on which at least one display electrode is disposed, and a second substrate on which at least one display electrode is disposed, for the display of a shape on the display device;
  - an interface (24) coupled to the at least one display electrode (11) on the first substrate for receiving display data to the display device, the display data providing a voltage value between the at least one display electrode on the first substrate and the at least one display electrode on the second substrate;
  - a measuring circuit coupled to the at least one display electrode on the first substrate; and
  - switching means for connecting the interface to the at least one display electrode electrodes on the first and second substrates when the switching means is in a first state of operation and for connecting the measuring circuit to the at least one display electrode on the first substrate when the switching means is in a second state of operation, wherein:  
the measuring circuit is configured to detect a change in capacitance or resistance measured at the at least one display electrode on the first substrate; and  
the switching means is configured to preserve the voltage value between the at least one display electrode on the first substrate and the at least one display electrode on the second substrate when the switching means is in the second state of operation.

2. (Canceled).
3. (Canceled).
4. (Previously presented) A touch sensor according to claim 1, wherein the measuring circuit comprises:
  - a signal generator coupled to the at least one display electrode for providing a predetermined test signal to the display electrode; and
  - a signal evaluating circuit coupled to the at least one display electrode for receiving the test signal from the signal generator.
- 5 (Previously presented) A touch sensor according to claim 4, wherein the signal evaluation circuit is configured to detect a deviation in the test signal when the switching means is in the second state of operation.
6. (Previously presented) A touch sensor according to claim 4, wherein:
  - the display device comprises a front substrate having a plurality of segments; and
  - the signal generator is configured to apply the test signal to the segments on the front substrate.
7. (Previously presented) A touch sensor according to claim 4, wherein:
  - the display device comprises a back substrate having a plurality of segments; and
  - the signal generator is configured to apply the test signal to segments on the back substrate.

8. (Previously presented) A touch sensor according to claim 6, wherein the segments on the front substrate which are not connected to the signal generator are retained in a high-ohmic state.
9. (Currently amended) A method for detecting a touch on a display device, said display device having a first substrate on which at least one display electrode is disposed and a second substrate on which at least one display electrode is disposed, for the display of a shape on the display device, wherein said display electrode is electrodes are coupled to an interface for receiving display data to the display device, comprising the steps of:

disconnecting the at least one display electrode on the first and second substrate from the interface;

connecting said display electrode on the first substrate to a measuring circuit; and

detecting, by the measuring circuit, a change in an electrical property a capacitance or resistance of the at least one display electrode on the first substrate due to an electrical coupling with an object touching the display device in the vicinity of the display electrode on the first substrate, wherein

the at least one display electrode on the second substrate is connected such that a voltage level between the at least one display electrode on the first substrate and the at least one display electrode on the second substrate is preserved.
10. (Currently amended) A method according to claim 9, wherein detecting a change in an electrical property a capacitance or resistance of the display electrode comprises:

applying a predetermined test signal to the display electrode and

detecting a deviation in the test signal due to an electrical coupling with an object touching the display device in the vicinity of the display electrode.

11. (Previously presented) A method according to claim 9, wherein the electrical coupling comprises a capacitive coupling.
12. (Previously presented) A method according to claim 9, wherein the electrical coupling comprises a galvanic coupling.
13. (Previously presented) A method according to claim 10, wherein the electrical coupling comprises a capacitive coupling.
14. (Previously presented) A method according to claim 10, wherein the electrical coupling comprises a galvanic coupling.
15. (Previously presented) A touch sensor according to claim 5, wherein:
  - the display device comprises a front substrate having a plurality of segments; and
  - the signal generator is adapted to apply the test signal to the segments on the front substrate.
16. (Previously presented) A touch sensor according to claim 5, wherein:
  - the display device comprises a back substrate having a plurality of segments; and
  - the signal generator is adapted to apply the test signal to the segments on the back substrate.

17. (Previously presented) A touch sensor according to claim 7, wherein the segments on the back substrate which are not connected to the signal generator are retained in a high-ohmic state.